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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,034	02/15/2001	Yoshihiro Ishikawa	3815-116	1987

22913 7590 02/08/2007

WORKMAN NYDEGGER  
(F/K/A WORKMAN NYDEGGER & SEELEY)  
60 EAST SOUTH TEMPLE  
1000 EAGLE GATE TOWER  
SALT LAKE CITY, UT 84111

EXAMINER

SAM, PHIRIN

ART UNIT

PAPER NUMBER

2616

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	02/08/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

09/763,034

Applicant(s)

ISHIKAWA ET AL.

Examiner

Phirin Sam

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 21-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 22 and 31-33 is/are allowed.
- 6) ☒ Claim(s) 21 and 23-29 is/are rejected.
- 7) ☒ Claim(s) 30 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

  
**PHIRIN SAM**  
**PRIMARY EXAMINER**

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 21 and 23-29 are rejected under 35 U.S.C. 102(e) as being anticipated by US Patent 6,650,686 (hereinafter referred as “Kondo”).

**Regarding claims 21 and 23**, Kondo discloses an information management method for cell search in a mobile communications system comprising:

- (a) a capturing step of capturing, in a handover-source base station, phase difference information between a long period spreading code of a common control channel from said handover-source base station and a long period spreading code of a common control channel from a handover-destination base station, the phase difference information being calculated by at least one mobile station that is communicating with said handover-source base station (see Fig. 1, col. 6, lines 43-67, and col. 7, lines 1-6);
- (b) A storing step of storing, in said handover- source base station and/or its control station, the captured phase difference information (see Figs. 1 and 3, col. 8, lines 50-65, and col. 9, lines 54-65);
- (c) a transmitting step of transmitting the stored phase difference information to a mobile station (see Figs. 1 and 3, col. 9, lines 54-60).

**Regarding claim 24**, Kondo discloses a cell search method of a mobile station comprising:

- (a) A receiving step of receiving from a base station, phase difference information between a long period spreading code of a common control channel of said base station and a long period spreading code of a common control channel of a neighboring base station of said base station (see Fig. 1, col. 6, lines 43-67, and col. 7, lines 1-6);
- (b) a cell search step of carrying out cell search in accordance with the received phase difference information (see Fig. 3, col. 10, lines 6-36).

**Regarding claim 25**, Kondo discloses the cell search step carries out the cell search within a fixed time range in accordance with the received phase difference information (see Fig. 3, col. 10, lines 6-36).

**Regarding claim 26**, Kondo discloses a base station comprising:

- (a) Storing means for storing phase difference information between a long period spreading code of a common control channel of said base station and a long period spreading code of a common control channel of a neighboring base station of said base station, the phase difference information being captured from a mobile station (see Figs. 1 and 3, col. 8, lines 50-65, and col. 9, lines 54-65);
- (b) management means for managing the phase difference information stored in said storing means (see Figs. 1 and 3, col. 8, lines 50-65).

**Regarding claim 27** has the similar limitations of claim 26 and therefore, it is rejected under the same rationale as in claim 26.

**Regarding claim 28** has the similar limitations of claim 26 and therefore, it is rejected under the same rationale as in claim 26.

**Regarding claim 29**, Kondo discloses a mobile station comprising:

- (a) Phase difference information storing means for storing phase difference information between a long period spreading code of a common control channel of a base station and a long period spreading code of a common control channel of a neighboring base station of said base station, the phase difference information being captured from said base station (see Figs. 1 and 3, element 177, col. 8, lines 50-67, and col. 9, lines 54-65);
- (b) cell search means for carrying out cell search in accordance with the phase difference information stored in said storing means (see Figs. 1 and 3, col. 10, lines 6-36).

***Allowable Subject Matter***

- 3. Claims 22 and 31-33 are allowed.
- 4. Claim 30 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Response to Arguments***

- 5. Applicant's arguments with respect to claims 30, 21, and 23-29 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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(1) US Patent 6,259,683 (Sekine et al) discloses mobile communication system for accomplishing handover with phase difference of frame sync signals corrected.


7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phirin Sam whose telephone number is (571) 272-3082. The examiner can normally be reached on a compress schedule, from 8:00-5:30, first Wed off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272 - 3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Respectfully submitted,

Date: February 5, 2007

A handwritten signature in black ink, appearing to read 'Phirin Sam', written over a horizontal line.

**PHIRIN SAM  
PRIMARY EXAMINER**